

## SEQUENCE LISTING

<110> C. Frank Bennett  
Susan M. Freier

<120> ANTISENSE MODULATION OF GLIOMA-ASSOCIATED ONCOGENE-3 EXPRESSION

<130> RTS-0258

<160> 90

<210> 1  
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<212> DNA  
<213> Artificial Sequence

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<223> Antisense Oligonucleotide

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<223> Antisense Oligonucleotide

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<210> 3  
<211> 5055

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (55) . . . (4845)

&lt;400&gt; 3

cgatactacg tggcatttt tggtcgaaga gagctgaagt aatgagaaga catc atg 57  
Met  
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gag gcc cag tcc cac agc tcc acg acc act gaa aag aaa aaa gtt gag 105  
Glu Ala Gln Ser His Ser Ser Thr Thr Thr Glu Lys Lys Lys Val Glu  
5 10 15

aat tcc ata gtg aag tgc tcc act cga aca gat gtg agc gag aaa gcc 153  
Asn Ser Ile Val Lys Cys Ser Thr Arg Thr Asp Val Ser Glu Lys Ala  
20 25 30

gtt gcc tcc agc acc act tct aat gag gat gaa agt cct gga cag act 201  
Val Ala Ser Ser Thr Thr Ser Asn Glu Asp Glu Ser Pro Gly Gln Thr  
35 40 45

tat cac aga gag aga aga aac gca atc act atg cag cca cag aat gtc 249  
Tyr His Arg Glu Arg Arg Asn Ala Ile Thr Met Gln Pro Gln Asn Val  
50 55 60 65

cag ggg ctc agc aaa gtc agt gag gaa cct tca aca tcg agt gac gag 297  
Gln Gly Leu Ser Lys Val Ser Glu Glu Pro Ser Thr Ser Asp Glu  
70 75 80

agg gcc tca ttg atc aag aaa gag atc cat ggg tcc ctg cca cac gtg 345  
Arg Ala Ser Leu Ile Lys Lys Glu Ile His Gly Ser Leu Pro His Val  
85 90 95

gcg gag ccc tct gtg ccg tac cgc ggg acg gtg ttt gcc atg gac ccc 393  
Ala Glu Pro Ser Val Pro Tyr Arg Gly Thr Val Phe Ala Met Asp Pro  
100 105 110

agg aat ggt tac atg gag ccc cac tac cac cct cat ctt ttc cct 441  
Arg Asn Gly Tyr Met Glu Pro His Tyr His Pro Pro His Leu Phe Pro

|   |     |     |     |
|---|-----|-----|-----|
| 115   | 120 | 125 |     |
| gcc ttc cat cct gta cca att gat gcc aga cat cat gag ggc cgt     |     |     | 489 |
| Ala Phe His Pro Pro Val Pro Ile Asp Ala Arg His His Glu Gly Arg |     |     |     |
| 130   | 135 | 140 | 145 |
| tac cat tac gat cca tct ccg att cct cca ttg cat atg act tcc gcc |     |     | 537 |
| Tyr His Tyr Asp Pro Ser Pro Ile Pro Pro Leu His Met Thr Ser Ala |     |     |     |
| 150   | 155 | 160 |     |
| tta tct agt agc cct acg tat ccg gac ctg ccc ttc att agg atc tcc |     |     | 585 |
| Leu Ser Ser Ser Pro Thr Tyr Pro Asp Leu Pro Phe Ile Arg Ile Ser |     |     |     |
| 165   | 170 | 175 |     |
| cca cac cgg aac ccc gct gct tcc gag tct ccc ttc agc cct cca     |     |     | 633 |
| Pro His Arg Asn Pro Ala Ala Ala Ser Glu Ser Pro Phe Ser Pro Pro |     |     |     |
| 180   | 185 | 190 |     |
| cat ccc tac att aat ccc tac atg gac tat atc cgc tcc ttg cac agc |     |     | 681 |
| His Pro Tyr Ile Asn Pro Tyr Met Asp Tyr Ile Arg Ser Leu His Ser |     |     |     |
| 195   | 200 | 205 |     |
| agc cca tcg ctc tcc atg atc tca gca acc cgt ggg ctg agc cct aca |     |     | 729 |
| Ser Pro Ser Leu Ser Met Ile Ser Ala Thr Arg Gly Leu Ser Pro Thr |     |     |     |
| 210   | 215 | 220 | 225 |
| gat gcg ccc cat gca gga gtc agc cca gca gaa tac tat cat cag atg |     |     | 777 |
| Asp Ala Pro His Ala Gly Val Ser Pro Ala Glu Tyr Tyr His Gln Met |     |     |     |
| 230   | 235 | 240 |     |
| gcc ctg cta act ggc cag cgc agc ccc tat gca gac att att ccc tca |     |     | 825 |
| Ala Leu Leu Thr Gly Gln Arg Ser Pro Tyr Ala Asp Ile Ile Pro Ser |     |     |     |
| 245   | 250 | 255 |     |
| gct gcc acc gcc ggc acg ggg gcc atc cac atg gaa tat ctt cat gct |     |     | 873 |
| Ala Ala Thr Ala Gly Thr Gly Ala Ile His Met Glu Tyr Leu His Ala |     |     |     |
| 260   | 265 | 270 |     |
| atg gat agc acc aga ttc tcc agc ccc agg ctg tca gcc agg ccg agc |     |     | 921 |
| Met Asp Ser Thr Arg Phe Ser Ser Pro Arg Leu Ser Ala Arg Pro Ser |     |     |     |
| 275   | 280 | 285 |     |
| cga aaa cgt aca ctg tcc ata tca cca ctc tcc gat cat agc ttt gac |     |     | 969 |
| Arg Lys Arg Thr Leu Ser Ile Ser Pro Leu Ser Asp His Ser Phe Asp |     |     |     |

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|---|-----|-----|-----|------|
| 290   | 295 | 300 | 305 |      |
| ctt cag acc atg ata agg acg tct ccc aac tcc ttg gtc acg att ctc |     |     |     | 1017 |
| Leu Gln Thr Met Ile Arg Thr Ser Pro Asn Ser Leu Val Thr Ile Leu |     |     |     |      |
| 310   | 315 | 320 |     |      |
| aat aat tcc cgt agc agc tct tca gca agt ggc tcc tat ggt cac tta |     |     |     | 1065 |
| Asn Asn Ser Arg Ser Ser Ser Ala Ser Gly Ser Tyr Gly His Leu     |     |     |     |      |
| 325   | 330 | 335 |     |      |
| tct gca agt gca atc agc cct gcc ttg agc ttc acc tac tct tcc gcg |     |     |     | 1113 |
| Ser Ala Ser Ala Ile Ser Pro Ala Leu Ser Phe Thr Tyr Ser Ser Ala |     |     |     |      |
| 340   | 345 | 350 |     |      |
| ccc gtc tct ctc cac atg cat cag cag atc cta agc cga caa cag agc |     |     |     | 1161 |
| Pro Val Ser Leu His Met His Gln Gln Ile Leu Ser Arg Gln Gln Ser |     |     |     |      |
| 355   | 360 | 365 |     |      |
| tta ggt tca gcc ttt gga cac agc cct cca ctc atc cac cct gcc cca |     |     |     | 1209 |
| Leu Gly Ser Ala Phe Gly His Ser Pro Pro Leu Ile His Pro Ala Pro |     |     |     |      |
| 370   | 375 | 380 | 385 |      |
| act ttt cca aca cag agg cct att cca ggg atc cct acg gtt ctg aac |     |     |     | 1257 |
| Thr Phe Pro Thr Gln Arg Pro Ile Pro Gly Ile Pro Thr Val Leu Asn |     |     |     |      |
| 390   | 395 | 400 |     |      |
| ccc gtc cag gtc agc tcc ggc cct tct gag tcc tca cag aac aag ccc |     |     |     | 1305 |
| Pro Val Gln Val Ser Ser Gly Pro Ser Glu Ser Ser Gln Asn Lys Pro |     |     |     |      |
| 405   | 410 | 415 |     |      |
| acg agt gag tct gca gtg agc agc act ggt gac ccg atg cac aac aag |     |     |     | 1353 |
| Thr Ser Glu Ser Ala Val Ser Ser Thr Gly Asp Pro Met His Asn Lys |     |     |     |      |
| 420   | 425 | 430 |     |      |
| agg tcc aag atc aaa ccc gat gaa gac ctc ccc agc cca ggg gct cgg |     |     |     | 1401 |
| Arg Ser Lys Ile Lys Pro Asp Glu Asp Leu Pro Ser Pro Gly Ala Arg |     |     |     |      |
| 435   | 440 | 445 |     |      |
| ggg cag cag gaa cag ccc gaa gga aca acc ctt gtc aag gag gaa ggg |     |     |     | 1449 |
| Gly Gln Gln Glu Gln Pro Glu Gly Thr Thr Leu Val Lys Glu Glu Gly |     |     |     |      |
| 450   | 455 | 460 | 465 |      |
| gac aaa gat gaa agc aaa cag gag cct gaa gtc atc tat gag aca aac |     |     |     | 1497 |
| Asp Lys Asp Glu Ser Lys Gln Glu Pro Glu Val Ile Tyr Glu Thr Asn |     |     |     |      |

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|---|-----|-----|------|
| 470   | 475 | 480 |      |
| tgc cac tgg gaa ggc tgc gcg agg gag ttc gac acc caa gag cag ctt |     |     | 1545 |
| Cys His Trp Glu Gly Cys Ala Arg Glu Phe Asp Thr Gln Glu Gln Leu |     |     |      |
| 485   | 490 | 495 |      |
| gtg cac cat ata aat aac gac cat att cat gga gag aag aag gag ttc |     |     | 1593 |
| Val His His Ile Asn Asn Asp His Ile His Gly Glu Lys Lys Glu Phe |     |     |      |
| 500   | 505 | 510 |      |
| gtg tgc agg tgg ctg gac tgc tca aga gag cag aaa ccc ttc aaa gcc |     |     | 1641 |
| Val Cys Arg Trp Leu Asp Cys Ser Arg Glu Gln Lys Pro Phe Lys Ala |     |     |      |
| 515   | 520 | 525 |      |
| cag tat atg ttg gta gtg cat atg aga aga cac acg ggc gag aag cct |     |     | 1689 |
| Gln Tyr Met Leu Val Val His Met Arg Arg His Thr Gly Glu Lys Pro |     |     |      |
| 530   | 535 | 540 | 545  |
| cac aaa tgc act ttt gaa ggt tgc aca aag gcc tac tcg aga cta gaa |     |     | 1737 |
| His Lys Cys Thr Phe Glu Gly Cys Thr Lys Ala Tyr Ser Arg Leu Glu |     |     |      |
| 550   | 555 | 560 |      |
| aac ttg aaa aca cac ttg aga tct cac act gga gag aaa cca tac gtc |     |     | 1785 |
| Asn Leu Lys Thr His Leu Arg Ser His Thr Gly Glu Lys Pro Tyr Val |     |     |      |
| 565   | 570 | 575 |      |
| tgt gag cac gaa ggt tgc aac aag gct ttc tca aat gcc tct gat cgc |     |     | 1833 |
| Cys Glu His Glu Gly Cys Asn Lys Ala Phe Ser Asn Ala Ser Asp Arg |     |     |      |
| 580   | 585 | 590 |      |
| gcc aaa cac caa aac aga acg cat tcc aat gag aaa cca tat gtg tgc |     |     | 1881 |
| Ala Lys His Gln Asn Arg Thr His Ser Asn Glu Lys Pro Tyr Val Cys |     |     |      |
| 595   | 600 | 605 |      |
| aaa atc cca ggc tgc act aag cgt tac aca gac cca agc tcc ctc cgg |     |     | 1929 |
| Lys Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu Arg |     |     |      |
| 610   | 615 | 620 | 625  |
| aaa cat gtg aag aca gtg cat ggc cca gag gct cat gtc acc aag aag |     |     | 1977 |
| Lys His Val Lys Thr Val His Gly Pro Glu Ala His Val Thr Lys Lys |     |     |      |
| 630   | 635 | 640 |      |
| cag cga ggg gac atc cat cct cgg cca ccc ccg aga gat tcc ggc     |     |     | 2025 |
| Gln Arg Gly Asp Ile His Pro Arg Pro Pro Pro Arg Asp Ser Gly     |     |     |      |

645 650 655  
agc cat tca cag tcc agg tcg cct ggc cga ccg act cag gga gcc ctt 2073  
Ser His Ser Gln Ser Arg Ser Pro Gly Arg Pro Thr Gln Gly Ala Leu  
660 665 670  
ggt gag cag cag gac ctc agc aac act acc tca aag cgg gaa gaa tgc 2121  
Gly Glu Gln Gln Asp Leu Ser Asn Thr Thr Ser Lys Arg Glu Glu Cys  
675 680 685  
ctc cag gtg aaa acc gtc aag gca gag aag cca atg aca tct cag cca 2169  
Leu Gln Val Lys Thr Val Lys Ala Glu Lys Pro Met Thr Ser Gln Pro  
690 695 700 705  
agc cct ggt ggt cag tct tca tgc agc agc caa cag tcc ccc atc agc 2217  
Ser Pro Gly Gly Gln Ser Ser Cys Ser Ser Gln Gln Ser Pro Ile Ser  
710 715 720  
aac tat tcc aac agt ggg ctc gag ctt cct ctg acc gat gga ggt agt 2265  
Asn Tyr Ser Asn Ser Gly Leu Glu Leu Pro Leu Thr Asp Gly Gly Ser  
725 730 735  
ata gga gac ctc agt gcc atc gat gaa acc cca atc atg gac tca acc 2313  
Ile Gly Asp Leu Ser Ala Ile Asp Glu Thr Pro Ile Met Asp Ser Thr  
740 745 750  
att tcc act gca acc aca gcc ctt gct ttg caa gcc agg aga aac ccg 2361  
Ile Ser Thr Ala Thr Ala Leu Ala Leu Gln Ala Arg Arg Asn Pro  
755 760 765  
gca ggg acc aaa tgg atg gag cac gta aaa cta gaa agg cta aaa caa 2409  
Ala Gly Thr Lys Trp Met Glu His Val Lys Leu Glu Arg Leu Lys Gln  
770 775 780 785  
gtg aat gga atg ttt ccg cga ctg aac ccc att cta ccc cct aaa gcc 2457  
Val Asn Gly Met Phe Pro Arg Leu Asn Pro Ile Leu Pro Pro Lys Ala  
790 795 800  
cct gcg gtc tct ctc ata gga aat ggc aca cag tcc aac aac acc 2505  
Pro Ala Val Ser Pro Leu Ile Gly Asn Gly Thr Gln Ser Asn Asn Thr  
805 810 815  
tgc agc ttg ggt ggg ccc atg acg ctt ctc ccg ggc aga agc gac ctc 2553  
Cys Ser Leu Gly Gly Pro Met Thr Leu Leu Pro Gly Arg Ser Asp Leu

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| 820  | 825 | 830 |      |
| tct ggg gtg gac gtc act atg ctg aac atg ctc aac aga agg gac agc<br>Ser Gly Val Asp Val Thr Met Leu Asn Met Leu Asn Arg Arg Asp Ser |     |     |      |
| 835  | 840 | 845 |      |
| agc gcc agc acc atc agc tcg gcc tac ctg agc agc cgc cgc tcc tca<br>Ser Ala Ser Thr Ile Ser Ser Ala Tyr Leu Ser Ser Arg Arg Ser Ser |     |     |      |
| 850  | 855 | 860 | 865  |
| ggg atc tcg ccc tgc ttc tcc agc cgc cgc tcc agc gag gcg tca cag<br>Gly Ile Ser Pro Cys Phe Ser Ser Arg Arg Ser Ser Glu Ala Ser Gln |     |     |      |
| 870  | 875 | 880 |      |
| gcc gag ggc cgg ccg cag aac gtg agc gtg gcc gac tcc tac gac ccc<br>Ala Glu Gly Arg Pro Gln Asn Val Ser Val Ala Asp Ser Tyr Asp Pro |     |     |      |
| 885  | 890 | 895 |      |
| atc tcc acc gac gcc tcg cgc cgc tcc agc gaa gcc agc cag agc gac<br>Ile Ser Thr Asp Ala Ser Arg Arg Ser Ser Glu Ala Ser Gln Ser Asp |     |     |      |
| 900  | 905 | 910 |      |
| ggc ctg ccc agc ctg ctc acg ccc gcc cag cag tac cgc ctc<br>Gly Leu Pro Ser Leu Leu Ser Leu Thr Pro Ala Gln Gln Tyr Arg Leu         |     |     |      |
| 915  | 920 | 925 |      |
| aag gcc aag tac gcg gct gcc aca gga ggg ccg ccg ccg acg ccc ctg<br>Lys Ala Lys Tyr Ala Ala Ala Thr Gly Pro Pro Pro Thr Pro Leu     |     |     |      |
| 930  | 935 | 940 | 945  |
| ccc aac atg gag agg atg agc ctg aag acg cgc ctg gcg ctg ctc ggg<br>Pro Asn Met Glu Arg Met Ser Leu Lys Thr Arg Leu Ala Leu Leu Gly |     |     |      |
| 950  | 955 | 960 |      |
| gat gcc ctc gag cct ggc gtg gcc ctg cct cca gtt cat gcc ccg agg<br>Asp Ala Leu Glu Pro Gly Val Ala Leu Pro Pro Val His Ala Pro Arg |     |     |      |
| 965  | 970 | 975 |      |
| agg tgc agc gac ggg gga gcc cac ggc tac ggg ccg cgc cac ctg cag<br>Arg Cys Ser Asp Gly Gly Ala His Gly Tyr Gly Arg Arg His Leu Gln |     |     |      |
| 980  | 985 | 990 |      |
| ccg cac gat gcg ctg ggc cac ggc gtg agg agg gcc agc gac ccg gtg<br>Pro His Asp Ala Leu Gly His Gly Val Arg Arg Ala Ser Asp Pro Val |     |     |      |
|  |     |     | 3081 |
|  |     |     | 2601 |
|  |     |     | 2649 |
|  |     |     | 2697 |
|  |     |     | 2745 |
|  |     |     | 2793 |
|  |     |     | 2841 |
|  |     |     | 2889 |
|  |     |     | 2937 |
|  |     |     | 2985 |
|  |     |     | 3033 |

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|---|------|------|------|
| 995   | 1000 | 1005 |      |
| cgg aca ggc tcc gag ggc ctg gcc ctg cct cgt gtg ccg cgc ttc agc |      |      | 3129 |
| Arg Thr Gly Ser Glu Gly Leu Ala Leu Pro Arg Val Pro Arg Phe Ser |      |      |      |
| 1010  | 1015 | 1020 | 1025 |
| agc ctc agc agc tgc aac ccc ccg gcg atg gcc acg tcc gcg gag aag |      |      | 3177 |
| Ser Leu Ser Ser Cys Asn Pro Pro Ala Met Ala Thr Ser Ala Glu Lys |      |      |      |
| 1030  | 1035 | 1040 |      |
| cgc agt ctc gtg ctt cag aat tac acg ccg ccc gag ggc ggc cag tcc |      |      | 3225 |
| Arg Ser Leu Val Leu Gln Asn Tyr Thr Arg Pro Glu Gly Gly Gln Ser |      |      |      |
| 1045  | 1050 | 1055 |      |
| cga aac ttc cac tcg tcc ccc tgt cct ccc agc atc acc gag aac gtc |      |      | 3273 |
| Arg Asn Phe His Ser Ser Pro Cys Pro Pro Ser Ile Thr Glu Asn Val |      |      |      |
| 1060  | 1065 | 1070 |      |
| acc ctg gag tcc ctg acc atg gac gct gat gcc aac ctg aac gat gag |      |      | 3321 |
| Thr Leu Glu Ser Leu Thr Met Asp Ala Asp Ala Asn Leu Asn Asp Glu |      |      |      |
| 1075  | 1080 | 1085 |      |
| gat ttc ctg ccg gac gtg gtg cag tat tta aat tcc cag aac caa     |      |      | 3369 |
| Asp Phe Leu Pro Asp Asp Val Val Gln Tyr Leu Asn Ser Gln Asn Gln |      |      |      |
| 1090  | 1095 | 1100 | 1105 |
| gca ggg tac gag cag cac ttc ccc agc gcc ctc ccg gac gac agc aaa |      |      | 3417 |
| Ala Gly Tyr Glu Gln His Phe Pro Ser Ala Leu Pro Asp Asp Ser Lys |      |      |      |
| 1110  | 1115 | 1120 |      |
| gtg ccc cac ggg ccc ggt gac ttt gac gcg ccc ggg ctg cca gac agc |      |      | 3465 |
| Val Pro His Gly Pro Gly Asp Phe Asp Ala Pro Gly Leu Pro Asp Ser |      |      |      |
| 1125  | 1130 | 1135 |      |
| cac gct ggc cag cag ttc cat gcc ctc gag cag ccc tgc ccc gag ggc |      |      | 3513 |
| His Ala Gly Gln Gln Phe His Ala Leu Glu Gln Pro Cys Pro Glu Gly |      |      |      |
| 1140  | 1145 | 1150 |      |
| agc aaa acc gac ctg ccc att cag tgg aac gaa gtc agc tcc gga agc |      |      | 3561 |
| Ser Lys Thr Asp Leu Pro Ile Gln Trp Asn Glu Val Ser Ser Gly Ser |      |      |      |
| 1155  | 1160 | 1165 |      |
| gcc gac ctg tcc tcc aag ctc aag tgt ggg ccg cgg ccc gct gtg     |      |      | 3609 |
| Ala Asp Leu Ser Ser Lys Leu Lys Cys Gly Pro Arg Pro Ala Val     |      |      |      |

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|---|------|------|------|------|
| 1170  | 1175 | 1180 | 1185 |      |
| ccg cag act cgc gcc ttt ggg ttc tgc aac ggc atg gtc gtc cac ccg |      |      |      | 3657 |
| Pro Gln Thr Arg Ala Phe Gly Phe Cys Asn Gly Met Val Val His Pro |      |      |      |      |
| 1190  | 1195 | 1200 |      |      |
| cag aac ccc ttg agg agc ggg cct gct ggg ggc tat cag acc ctc ggg |      |      |      | 3705 |
| Gln Asn Pro Leu Arg Ser Gly Pro Ala Gly Gly Tyr Gln Thr Leu Gly |      |      |      |      |
| 1205  | 1210 | 1215 |      |      |
| gag aac agc aac ccc tac ggt ggc cca gag cac ttg atg ctc cac aac |      |      |      | 3753 |
| Glu Asn Ser Asn Pro Tyr Gly Gly Pro Glu His Leu Met Leu His Asn |      |      |      |      |
| 1220  | 1225 | 1230 |      |      |
| agc ccc gga agt ggc acc agt gga aac gcc ttc cat gaa cag ccc tgt |      |      |      | 3801 |
| Ser Pro Gly Ser Gly Thr Ser Gly Asn Ala Phe His Glu Gln Pro Cys |      |      |      |      |
| 1235  | 1240 | 1245 |      |      |
| aag gcc ccg cag tat ggg aac tgt ctc aac agg cag cca gtg gcc cct |      |      |      | 3849 |
| Lys Ala Pro Gln Tyr Gly Asn Cys Leu Asn Arg Gln Pro Val Ala Pro |      |      |      |      |
| 1250  | 1255 | 1260 | 1265 |      |
| tgt gca ctc gac ggt gcc tgt ggt gcc ggg att caa gcc tca aag ctg |      |      |      | 3897 |
| Gly Ala Leu Asp Gly Ala Cys Gly Ala Gly Ile Gln Ala Ser Lys Leu |      |      |      |      |
| 1270  | 1275 | 1280 |      |      |
| aag agc acc ccc atg caa ggg agc ggg ggc cag ctg aat ttc ggc ctg |      |      |      | 3945 |
| Lys Ser Thr Pro Met Gln Gly Ser Gly Gly Gln Leu Asn Phe Gly Leu |      |      |      |      |
| 1285  | 1290 | 1295 |      |      |
| ccg gta gcg cca aat gag tca gct ggc agc atg gtg aat ggc atg cag |      |      |      | 3993 |
| Pro Val Ala Pro Asn Glu Ser Ala Gly Ser Met Val Asn Gly Met Gln |      |      |      |      |
| 1300  | 1305 | 1310 |      |      |
| aac cag gac cca gtg gga cag ggg tac ctg gct cac cag ctc ctc ggc |      |      |      | 4041 |
| Asn Gln Asp Pro Val Gly Gln Gly Tyr Leu Ala His Gln Leu Leu Gly |      |      |      |      |
| 1315  | 1320 | 1325 |      |      |
| gac agc atg cag cac ccc ggg gca ggc cgc ccc ggt cag cag atg ctt |      |      |      | 4089 |
| Asp Ser Met Gln His Pro Gly Ala Gly Arg Pro Gly Gln Gln Met Leu |      |      |      |      |
| 1330  | 1335 | 1340 | 1345 |      |
| ggg cag att agt gct acc tca cac atc aac atc tac caa ggg cca gag |      |      |      | 4137 |
| Gly Gln Ile Ser Ala Thr Ser His Ile Asn Ile Tyr Gln Gly Pro Glu |      |      |      |      |

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| 1350   | 1355 | 1360 |      |
| agc tgc ctg cca ggg gct cac ggc atg ggc agc cag ccg tca agc ttg<br>Ser Cys Leu Pro Gly Ala His Gly Met Gly Ser Gln Pro Ser Ser Leu |      |      | 4185 |
| 1365   | 1370 | 1375 |      |
| gca gtt gtc agg ggc tac cag cca tgt gcc agc ttt ggg ggc agc agg<br>Ala Val Val Arg Gly Tyr Gln Pro Cys Ala Ser Phe Gly Gly Ser Arg |      |      | 4233 |
| 1380   | 1385 | 1390 |      |
| cgc cag gct atg ccg agg gac agc ctt gct ctg cag tca gga cag ctc<br>Arg Gln Ala Met Pro Arg Asp Ser Leu Ala Leu Gln Ser Gly Gln Leu |      |      | 4281 |
| 1395   | 1400 | 1405 |      |
| agt gac aca agt cag acc tgc agg gtg aat ggt atc aag atg gag atg<br>Ser Asp Thr Ser Gln Thr Cys Arg Val Asn Gly Ile Lys Met Glu Met |      |      | 4329 |
| 1410   | 1415 | 1420 | 1425 |
| aaa ggg cag ccc cat ccg ctg tgc tct aat ctg cag aat tac tct ggt<br>Lys Gly Gln Pro His Pro Leu Cys Ser Asn Leu Gln Asn Tyr Ser Gly |      |      | 4377 |
| 1430   | 1435 | 1440 |      |
| cag ttc tat gac caa acc gtg ggc ttc agt cag caa gac acg aaa gct<br>Gln Phe Tyr Asp Gln Thr Val Gly Phe Ser Gln Gln Asp Thr Lys Ala |      |      | 4425 |
| 1445   | 1450 | 1455 |      |
| ggc ttc tct att tca gac gac gac tgc cta cag ggg acc agc<br>Gly Ser Phe Ser Ile Ser Asp Ala Ser Cys Leu Leu Gln Gly Thr Ser         |      |      | 4473 |
| 1460   | 1465 | 1470 |      |
| gcc aaa aac tct gag tta ctt tcc cca ggt gct aat cag gtg aca agc<br>Ala Lys Asn Ser Glu Leu Leu Ser Pro Gly Ala Asn Gln Val Thr Ser |      |      | 4521 |
| 1475   | 1480 | 1485 |      |
| aca gtg gac agc ctc gac agc cat gac ctg gaa ggg gta cag att gac<br>Thr Val Asp Ser Leu Asp Ser His Asp Leu Glu Gly Val Gln Ile Asp |      |      | 4569 |
| 1490   | 1495 | 1500 | 1505 |
| ttc gat gcc atc ata gac gat ggg gac cac tcc agc ctg atg tcg ggg<br>Phe Asp Ala Ile Ile Asp Asp Gly Asp His Ser Ser Leu Met Ser Gly |      |      | 4617 |
| 1510   | 1515 | 1520 |      |
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| His His Gln His Gly Tyr Arg Gly His Glu Phe Phe Ala Asp Leu Pro                 |      |      |      |
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&lt;213&gt; Artificial Sequence

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&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 24

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&lt;210&gt; 25

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&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 25

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&lt;210&gt; 26

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 26

ggagatccta atgaaggca

20

&lt;210&gt; 27

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 27

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20

&lt;210&gt; 28

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 40

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&lt;210&gt; 41

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 41

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&lt;210&gt; 42

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

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&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 60

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&lt;210&gt; 61

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 61

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&lt;210&gt; 62

&lt;211&gt; 20

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&lt;210&gt; 67

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&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

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&lt;400&gt; 67

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&lt;210&gt; 68

&lt;211&gt; 20

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 68

gatgagattg ctaaaataca

20

&lt;210&gt; 69

&lt;211&gt; 20

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&lt;210&gt; 84

&lt;211&gt; 20

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 84

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&lt;210&gt; 85

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 85

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&lt;210&gt; 86

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

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